(منا بارفا)

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From the

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NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

Date of mailing \

(dav/month/year)

14.09.2004

Applicant's or agent's file reference

21.1105

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

PCT/EP 03/10001

05.09.2003

05.09.2002

Applicant

SERVICES PETROLIERS SCHLUMBERGER et al.

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Authorized Officer

Schmethüsen, S

Tel. +49 89 2399-2567





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	Applicant's or agent's file reference 21.1105		FOR FURTHER ACT	OR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416				
International application No. PCT/EP 03/10001			International filing date (day/month/year) 05.09.2003		h/year)	Priority date (day/month/year) 05.09.2002		
E21	B33/13		or both national classification and	d IPC				
SEF	RVICES PI	ETROLIERS SCHL	.UMBERGER et al.					
1.			examination report has been the applicant according to A			ternational Pre	iminary Exa	amining
2.	This REP	ORT consists of a tol	tal of 4 sheets, including this	s cover	sheet.			
	bee	n amended and are t	npanied by ANNEXES, i.e. she basis for this report and otion 607 of the Administrativ	r sheet	ts containing	rectifications n	d <i>l</i> or drawing nade before	gs which have this Authorit
	These an	nexes consist of a to	tal of 1 sheets.					
3.	This repo	rt contains indication	s relating to the following iter	ms:				
	1 ⊠	Basis of the opinion	n					
	⊠ □	Basis of the opinion	n					
	·	Priority	n of opinion with regard to no	velty, ir	nventive step	and industrial	applicability	/
		Priority	of opinion with regard to no	velty, ir	nventive step	and industrial	applicability	/
		Priority Non-establishment Lack of unity of inv Reasoned stateme	of opinion with regard to no	n regar	d to novelty,			
		Priority Non-establishment Lack of unity of inv Reasoned stateme	of opinion with regard to not ention ent under Rule 66.2(a)(ii) with nations supporting such stat	n regar	d to novelty,			
		Priority Non-establishment Lack of unity of inv Reasoned stateme citations and expla Certain documents	of opinion with regard to not ention ent under Rule 66.2(a)(ii) with nations supporting such stat	n regar	d to novelty,			
		Priority Non-establishment Lack of unity of inv Reasoned stateme citations and expla Certain documents Certain defects in the	of opinion with regard to no ention ent under Rule 66.2(a)(ii) with nations supporting such stat s cited	n regar ement	d to novelty,			
Date		Priority Non-establishment Lack of unity of inv Reasoned stateme citations and expla Certain documents Certain defects in the	of opinion with regard to not ention ent under Rule 66.2(a)(ii) with nations supporting such state cited the international application as on the international applic	n regar ement	d to novelty,	inventive step		
		Priority Non-establishment Lack of unity of inv Reasoned stateme citations and expla Certain documents Certain defects in t	of opinion with regard to not ention ent under Rule 66.2(a)(ii) with nations supporting such stat scited the international application ns on the international applic	n regar ement	d to novelty,	inventive step		
29. Nan	II	Priority Non-establishment Lack of unity of inv Reasoned stateme citations and expla Certain documents Certain defects in t	of opinion with regard to not ention ent under Rule 66.2(a)(ii) with nations supporting such stat scited the international application ns on the international applic	regarrement cation Date of	d to novelty,	inventive step		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/10001

I. I	Basis	of the	re	port
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages	
	1-9		as originally filed
	Clai	ms, Numbers	
	1-7		received on 03.07.2004 with letter of 01.07.2004
	Dra	wings, Sheets	
	1/4-4	4/4	as originally filed
2.	With lang	n regard to the langua juage in which the into	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:
		the language of a tra	unslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of publ	ication of the international application (under Rule 48.3(b)).
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).
3.	With inte	n regard to any nucle rnational preliminary o	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inte	rnational application in written form.
		filed together with th	e international application in computer readable form.
		furnished subsequer	ntly to this Authority in written form.
		furnished subsequer	ntly to this Authority in computer readable form.
		The statement that t in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.
4.	The	amendments have r	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/EP 03/10001

5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-7

Inventive step (IS)

No: Claims

1-7

Yes: Claims Claims No:

Industrial applicability (IA)

Yes: Claims

1-7

No: Claims

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: FR-A-2 784 095 (SCHLUMBERGER CIE DOWELL) 7 April 2000 (2000-04-07)

1. **Amendments:**

The amendments filed with the letter dated 01.07.2004 are allowable considering Article 19(2) PCT.

2. **Novelty:**

2.1 Since none of the prior art discloses all the technical features of independent claim 1, said claim as well as dependent claims 2-7 are considered as being novel over the cited prior art documents.

3. **Inventive Step:**

Document D1, considered as being the closest prior art document, discloses a well 3.1 cementing composition comprising s base fluid, cement, reinforcing metallic fibers - amorphous cast iron fibers- (see p4 l28 - p5 l11), and particulate caoutchouc material to improve the flexibility of said composition.

The subject-matter of present claim 1 is different in the use of glass, carbon or polymer fibers, in addition to the metallic fibers, instead of caoutchouc particulate.

The technical problem solved by this differentiating features appears to be an increase of the stability of the cement slurry by increasing the sedimentation time, as shown in the present application (see table 3 and pages 5+6 of the present application).

Since none of the prior art document teaches or fairly suggests such a composition comprising these 2 types of fiber or such a technical effect, claim 1, as well as dependent claims 2-7, are considered as being inventive.

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CLAIMS

- A cement slurry, comprising a base fluid including cement, a first fibrous component made of metallic fibres and a second fibrous component made of glass, carbon or polymeric fibres having a density close to that of the base fluid, said second fibrous component present at a concentration of less than 10% by mass of the total fibrous content of the fluid.
- The cement slurry of claim 1, wherein the metallic fibres comprise amorphous cast iron.
- The cement slurry of claim 2, wherein the metallic fibres are flat, plate-like structures having an average length less than 10mm.
- The cement slurry as claimed in any preceding claim, wherein the second fibrous component is selected from the list consisting of glass, polyamide, novoloid, polypropylene and polyester fibres.
- A cement slurry as claimed in any preceding claim wherein the second fibrous component has a length ranging from 5 to 35 mm.
- A well fluid as claimed in any preceding claim, wherein the base fluid exhibits shearthinning behaviour.
- A method of treating a well, comprising pumping into the well a cement slurry as claimed in any of the preceding claims.



